Regional HIV/AIDS Epidemiologic Profile of Plymouth County, Massachusetts: 2015

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Disease, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2015, this resulted in the removal of 4,401 HIV/AIDS cases, of which 1,021 have died and 3,380 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location at diagnosis, is the basis for MDPH service planning. Please note that previous HIV/AIDS fact sheets, data reports and presentations included cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports. and other data presentations have been updated to eliminate the presumed heterosexual risk category for men; those cases have been reassigned to the no identified risk (NIR) category. The presumed heterosexual risk category was used with the intention of identifying HIV risk for women when sex with men is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. The application of the presumed heterosexual risk category to men is overly inclusive in that woman to man HIV transmission is biologically less probable, and there are alternate risks that are possible for men, including sex with other men (MSM) or IDU. The CDC reports men diagnosed with HIV/AIDS who report sex with women as their only risk factor, without corresponding partner risk or HIV status information, in the NIR category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for men in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual risk categories for women.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2014: Plymouth County, Massachusetts²

	N	%
People Living with HIV/AIDS	814	59%
People Reported with HIV or AIDS who are Deceased	559	41%
Total Number of People Reported with HIV Infection or		
AIDS	1,373	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 2. Average annual rate of HIV infection diagnosis from 2011 to 2013 and HIV/AIDS prevalence rate on 12/31/14¹: Plymouth County, Massachusetts²

Average annual HIV diagnosis rate from 2011–2013	Average rate per 100,000	Average annual number of HIV diagnoses
Plymouth County, MA	8.5	42.0
Massachusetts Total	10.7	701.3

	Number of people
Rate per 100,000	living with HIV/AIDS
164.5	814
301.5	19,737
	164.5

¹ The denominators for rate calculations are from the MDPH Massachusetts Race Allocated Census 2010 Estimates (MRACE 2010), Massachusetts Department of Public Health, Bureau of Health Information, Statistics, Research, and Evaluation.
² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2004–2013, Plymouth County, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
0004	F70	47	24
2004	576	17	34
2005	596	18	38
2006	617	14	35
2007	640	12	35
2008	661	14	35
2009	686	11	36
2010	704	9	27
2011	734	12	42
2012	768	8	42
2013	796	14	42

¹ Number of people living with HIV/AIDS on 12/31 of each year

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 4. People diagnosed with HIV infection from 2011–2013¹ and people living with HIV/AIDS on December 31, 2014 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Plymouth County, Massachusetts²

	HIV Infection Diagr	noses	PLWH/A			
Gender:	N	%	N	%		
Male	79	63%	525	64%		
Female	47	37%	289	36%		
Place of Birth:	N	%	N	%		
US	7	7	503	62%		
Puerto Rico/US Dependency ³	7	 ⁷	38	5%		
Non-US	63	50%	273	34%		
Race/Ethnicity:	N	%	N	%		
White (non-Hispanic)	40	32%	358	44%		
Black (non-Hispanic)	71_	56%	328	40%		
Hispanic/Latino	 ⁷	⁷	111	14%		
Asian/Pacific Islander	⁷	 ⁷	10	1%		
Exposure Mode:	N	%	N	%		
Male-to-male sex (MSM)	36	29%	233	29%		
Injection Drug Use (IDU)	 ⁷	 ⁷	117	14%		
MSM/IDU	0	0%	17	2%		
Heterosexual Sex	11	9%	135	17%		
Other	-7 7	 ⁷	27	3%		
Total Undetermined	75	60%	285	35%		
Presumed Heterosexual Sex ⁴	33	26%	117	14%		
Undetermined ⁵	42	33%	168	21%		
Age:	N	%	N	%		
	At Diagnosis		On December 31,			
Under 13	0	0%	1	<1%		
13 to 19	6	5%	5	1%		
20 to 24	10	8%	15	2%		
25 to 29	8	6%	28	3%		
30 to 34	12	10%	34	4%		
35 to 39	9	7%	60	7%		
40 to 44	12	10%	61	7%		
45 to 49	25	20%	118	14%		
50 to 54	18	14%	168	21%		
55 to 59	16	13%	147	18%		
60+	10	8%	177	22%		
Total ⁶	126	100%	814	100%		

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-nine percent of people diagnosed with HIV infection from 2011–2013 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁷ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Table 5. People living with HIV/AIDS on December 31, 2014 by gender and race/ethnicity: Plymouth County, Massachusetts¹

	Male	Female		
Race/Ethnicity:	N %		N	%
White (non-Hispanic)	279	53%	79	27%
Black (non-Hispanic)	164	31%	164	57%
Hispanic/Latino	71	14%	40	14%
Other/unknown	11	2%	6	2%
Total	525	100%	289	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of

Table 6. People living with HIV/AIDS on December 31, 2014 by gender and exposure mode: Plymouth County, Massachusetts¹

	Male		Female		
Exposure Mode:	N	%	N	%	
Male-to-male sex (MSM)	233	44%	N/A	N/A	
Injection drug use (IDU)	72	14%	45	16%	
MSM/IDU	17	3%	N/A	N/A	
Heterosexual sex	39	7%	96	33%	
Other	17	3%	10	3%	
Total Undetermined	147	28%	138	48%	
 Presumed heterosexual sex² 	N/A	N/A	117	40%	
 Undetermined³ 	147	28%	21	7%	
Total	525	100%	289	100%	

Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up. N/A=Not Applicable

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Plymouth County, Massachusetts¹, 2004–2013²

	Male		Female		
	N	%	N	%	Total
2004	20	59%	14	41%	34
2005	25	66%	13	34%	38
2006	20	57%	15	43%	35
2007	24	69%	11	31%	35
2008	22	63%	13	37%	35
2009	24	67%	12	33%	36
2010	16	59%	11	41%	27
2011	22	52%	20	48%	42
2012	26	62%	16	38%	42
2013	31	74%	11	26%	42

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Plymouth County, Massachusetts¹, 2004–2013²

	White N Hispar		Black Non- Hispanic		Hispanic/Latino		Highanic/Latino			Total ³
	N	%	N	%	N	%	N	%	N	
2004	18	53%	11	32%	5	15%	0	0%	34	
2005 2006	15 12	39% 34%	16 13	42% 37%	-4 4 4	18% ⁴	0 ⁴	0% ⁴	38 35	
2007 2008	13 11	37% 31%	15 21	43% 60%	⁴	⁴	⁴	⁴	35 35	
2009 2010	13 8	36% 30%	17 13	47% 48%	⁴ 6	⁴ 22%	⁴ 0	⁴ 0%	36 27	
2011 2012	15 10	36% 24%	22 28	52% 67%	⁴ ⁴	⁴ ⁴	⁴ ⁴	⁴	42 42	
2013	15	36%	21	50%	5	12%	0	0%	42	

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Totals include American Indian/Alaskan Native individuals, and those of other or undetermined race/ethnicity.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Plymouth County, Massachusetts¹, 2004–2013²

	Puerto Rico/ US US Dependency ³			Non-U	Total		
	N	%	N	%	N	%	N
2004	4	4	4	4	11	32%	34
2005	21	55%	5	13%	12	32%	38
2006	21	60%	0	0%	14	40%	35
2007	4	4	4	4	20	57%	35
2008	4	4	4	4	17	49%	35
2009	19	53%	0	0%	17	47%	36
2010	4	4	4	4	11	41%	27
2011	22	52%	0	0%	20	48%	42
2012	4	4	4	4	26	62%	42
2013	4	4	4	4	17	40%	42

Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for

the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of people living with HIV/AIDS in MA who were born in a US dependency were born in Puerto Rico, 2% were born in US minor outlying areas ,<1% were born in the US Virgin Islands, and <1% were born in Guam.

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may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Plymouth County, Massachusetts¹, 2004–2013²

	MS	M	ID	U	MS ID		HT	SX	Oth	ner	Pre HTS			eter- ned ⁴	Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2004 2005 2006 2007 2008 2009 2010 2011	8 9 12 11 12 10 7 13	24% 24% 34% 31% 34% 28% 26% 31%	5, 5 5, 5, 5, 5, 5, 5	-5 13% -5 -5 -5 -5 -5 -5	0 0 5 5 5 5	⁵ 0% 0% ⁵ ⁵ ⁵	5 6 5 6 8 7 5 6 5	16% ⁵ 17% 23% 19% 19% 14%	⁵ ⁵ ⁵ 0 0 0	⁵ ⁵ ⁵ 0% 0% 0% 0%	6 ⁵ 8 ⁵ 8 11	18% ⁵ 23% ⁵ ⁵ 22% 22% 26%	11 13 6 11 8 9 8	32% 34% 17% 31% 23% 25% 30% 26%	34 38 35 35 35 36 27 42
2012 2013	11 12	26% 29%	⁵	⁵	0 0	0% 0%	⁵	⁵	0 ⁵	0% ⁵	14 8	33% 19%	13 18	31% 43%	42 42

Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

5 Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be

suppressed to prevent back calculation.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Plymouth County, Massachusetts¹, 2004–2013²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2004	16	34	47%
2005	12	38	32%
2006	18	35	51%
2007	10	35	29%
2008	9	35	26%
2009	9	36	25%
2010	11	27	41%
2011	19	42	45%
2012	17	42	40%
2013	15	42	36%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999. Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Plymouth County, Massachusetts, ¹ 2011–2013²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male Female	35 16	79 47	44% 34%
Race/Ethnicity:	N	N	%
White (non-Hispanic) Black (non-Hispanic) Hispanic/Latino Asian/Pacific Islander Other/Undetermined ³	18 27 ⁵ ⁵ ⁵	40 71 ⁵ ⁵ ⁵	45% 38% ⁵ ⁵ ⁵
Place of Birth:	N	N	%
US Puerto Rico/US Dependencies ⁴ Non-US Total	⁵ ⁵ 27 51	⁵ ⁵ 63 126	⁵ ⁵ 43% 40%

Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of

before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999. ³ Includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁴ Ninety-nine percent of people diagnosed with HIV infection from 2011–2013 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands. ⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional

values may be suppressed to prevent back calculation.